

### **3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (Patents Filed, Published, and Incubation Centre Facilities in the HEI to be considered)**

**Accurate Institute of Management & Technology** has a well-established and active Research and Development Centre, with members drawn from different departments. The policies of R & D are updated and adheres the guidelines and notification release by the UGC, AICTE and AKTU time to time. The policies consist of R & D Policies, Code of Ethics & Plagiarism, Incubation and IPR Cell, Collaborative Research, Joint Events & MoUs which has been implemented and followed. Institute has *zero tolerance towards plagiarism*. From 2019, institute has given access to all departments of *Turnitin*. The institute has adopted and adhere the guidelines provided in the Notification of University Grants Commission (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018.

The highlights of ***Research Ecosystem and few activities*** are as follows:

- **A Board for Research, Innovation and Consultancy** support research and innovation, protect intellectual property rights, promote filing of patents and advocate consultancy by experts. The research council has the R & D Coordinators and members from all the departments.
- **Research Publications:** The college is organizing periodic ***high impact conference*** with reputed publishing house (Springer, IGI Global) and Journals indexed in WoS and Scopus and UGC care with indexing and publishes *Departmental Magazines and Letters* for promoting awareness and innovation among students, scholars and faculty members. The college has also organized and conducting several Workshops, Seminars, Hackathons, Expert Lectures and Interaction session to spread awareness of fast changing technology, research and innovation student and faculty members. Our faculty members have published *610 research papers* in *UGC/ Scopus/google scholar/ Web of Science indexed journals and proceedings* in the past 5 years. The institute has established ***Centre of Excellence for research*** with industry academia partnership and Funded promotion of research in impacted areas and fields.
- ***Professional Development Allowance Fund and Fee Waivers*** motivate the faculty to pursue research.

- ***Mandatory Major Projects:*** All final year students have to complete a credited major project.
- ***Accurate Incubation Centre:*** We have established accurate incubation centre to support research, innovation and entrepreneurship. Centre has also incubated several projects by the engineering students under the supervision of faculty mentors.
- ***Collaborations, Linkage and Collaborative Activities:*** Functional MoUs, research projects, linkages and internship activities with different institutions/industries have been completed in last five years.
- ***Virtual labs:*** In certain labs, for instance the vibration engineering lab, some relevant experiments are conducted online on web browsers with the help of simulators.
- ***Power point presentations:*** This has actually become a standard norm in the teaching-learning process, and is facilitated by the fact that all our classrooms are well-equipped with high quality projectors ready for use any time.
- ***Adherence to Bloom's taxonomy:*** The mid-term tests for all subjects in the department are made in strict adherence to the Bloom's taxonomy.
- ***Club activities:*** Several clubs are currently being run by the institute. Various club activities in these clubs act as excellent grounds for innovative learning.
- ***Patents:*** More than 15 patents filed and published in last few years. The list of patents is as below

1. IOT ENABLED CHEMICAL MIXING DEVICE FOR AGRICULTURE FARM
2. IOT BASED PLANT HEALTH MONITORING DEVICE
3. WEARABLE ACTIVITY AND LIFESTYLE TRACKING DEVICE
4. OIL-WATER SEPARATING MACHINE
5. IOT BASED FOOD PROCESSOR
6. AI BASED DEVICE FOR DETECTING SLEEP APNEA
7. AI BASED STREET LIGHT CHANGING ROBOT
8. I BASED HOUSE SECURITY MONITORING DEVICE
9. IOT WEATHER MONITORING STATION
10. IOT SMART PARKING DEVICE USING RFID
11. IOT BASED GARBAGE MONITORING BIN